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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,944	04/12/2004	Hideki Hayashida	Q81061	2372
75	90 06/09/2005		EXAMINER	
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			NHU, DAVID	
Washington, Do	nia Avenue, N.W. C 20037-3213		ART UNIT	PAPER NUMBER
<b>3</b>			2818	
			DATE MAILED: 06/09/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

			A.K
	Application No.	Applicant(s)	
	10/821,944	HAYASHIDA ET AL.	
Office Action Summary	Examiner	Art Unit	
	David Nhu	2818	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state that the months after the meanned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of third will apply and will expire SIX (6) MO atute, cause the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 1	<u> 2 April 2004</u> .		
·—	his action is non-final.		
3) Since this application is in condition for allo	•		ĺ
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.I	J. 11, 453 O.G. 213.	
Disposition of Claims			
4) ⊠ Claim(s) <u>1-32</u> is/are pending in the applicat 4a) Of the above claim(s) is/are withe 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-32</u> is/are rejected. 7) □ Claim(s) is/are objected to.	drawn from consideration.		
8) Claim(s) are subject to restriction an	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam			
,	accepted or b) objected to	•	
Applicant may not request that any objection to Replacement drawing sheet(s) including the cor	= ' '		
11) The oath or declaration is objected to by the			
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for fore	aign priority under 35 H S C	8 119(a)-(d) or (f)	
a) All b) Some * c) None of:  1. Certified copies of the priority docum  2. Certified copies of the priority docum  3. Copies of the certified copies of the papplication from the International But  * See the attached detailed Office action for a	ents have been received. ents have been received in a priority documents have been reau (PCT Rule 17.2(a)).	60 /114,376 Application No. <u>09/473,708</u> . In received in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)	4) 🖂 Interview	Summary (PTO-413)	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date <u>02</u>.</li> </ol>	Paper No	(s)/Mail Date Informal Patent Application (PTO-152)	

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#### **DETAILED ACTIONS**

## **Double Patenting**

1. Claims 7, 16, 29-32 are rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-3 of U. S. Patent No. 6,719,842 B2 since the claims, if allowed, would improperly extend the "right to exclude" already granted in the patent.

The subject matter claimed in the instant application and similar language recited in the patent claims obviously depict a similar method having either same steps and/or same materials, and such is also disclosed in both the patent and the instant application.

### **Drawings**

2. Figure 3 should be designated by a legend such as—**Prior Art**—because only that which is old is illustrated. See MPEP & 608.02(g).

There is also no a buffer layer 2 in figure 1.

#### **Claims Objection**

3. Claims 20, 32 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1, 3, 5, 7, 8, 10, 13, 16, 17, 18, 19, 21, 24, 26, 29, are rejected because "the liquid phase ammonia has a water concentration of **0.01 to 0.5** vol. ppm" are not described/supported in the specifications.

#### Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Hayashiada'842, Wong'261 are cited as of interest.

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5. A shortened statutory period for response to this action is set to expired 3 (three) months and 0 (zero) day from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned (see 710.02 (b)).

6. Any inquiry concerning this communication on earlier communications from the examiner should be directed to David Nhu, (571)272-1792. The examiner can normally be reached on Monday-Friday from 7:30 AM to 5:00 PM. The examiner's supervisor, David Nelms can be reached on (571)272-1787.

The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

David Nhu

June 6, 2005

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